

ABSTRACT

Total temperature probe and method of determining total temperature

The invention relates to a total temperature probe for an aircraft and to a method of determining temperature by means of such a probe.

The total temperature measurement probe comprises a base (1), an external face (2) of which is intended to be mounted so as to be substantially coplanar with a skin of the aircraft, and a mast (3) that projects from the base (1) and supports an active part (4) of the probe. The probe furthermore includes several temperature sensors placed on the external face of the base (1) and distributed around the mast (3).

The method consists in determining the total temperature of the air surrounding the probe on the basis of the temperature measurement carried out in the active part (4) of the probe and on the basis of the maximum difference that exists between the measurements made by the temperature sensors (6 to 9).

Figure 1.